

**Claims: I claim:**

1. A method for forming a structure in a state of matter, comprising the step of:
  - a. establishing a standing electromagnetic wave in said state of matter.
2. A method for forming a graded dopant or impurity density in a state of matter, comprising the step of:
  - a. establishing a standing electromagnetic wave in said state of matter.
3. A method for forming a graded mass density in a state of matter, comprising the step of:
  - a. establishing a standing electromagnetic wave in said state of matter.